



Raymarine's DockSense Control is the recreational marine industry's first intelligent object-recognition and motion-sensing assisted-docking solution

Aug 31, 2021 14:00 BST

Raymarine and Emerson Partner to Deliver DockSense Control

The recreational marine industry's first intelligent object-recognition and motion-sensing assisted-docking solution is now available to boat builders and technical installers

Docking a boat – especially in wind and current – can be a stressful experience for even the most experienced captains. The impacts of mishaps range from mildly embarrassing to extremely expensive.

Raymarine understands that boating should be relaxing and fun. That's why its engineers went to work nearly four years ago, developing and combining the technologies that could help remove the stresses of docking a boat. All the while increasing peace of mind and protecting boaters' valuable investments.

First demonstrated in prototype form in 2019 at the Dusseldorf and Miami International Boat Shows, Raymarine [DockSense™ Control](#) technology was conceived, designed and proven effective in augmenting a captain's boat-handling skills to avoid docking mishaps. The system uses an array of Teledyne FLIR stereoscopic cameras to establish, monitor, and render a Virtual Fender zone around the vessel. Visually represented on a Raymarine Axiom® multifunction display, DockSense Control accurately senses pilings, dock edges and other vessels as they begin to encroach on the perimeter.

DockSense Control prevents the vessel from colliding with a detected object and moves the vessel in the direction commanded by the captain via the joystick, simultaneously compensating for the effects of wind and tide. With no commands, the system will hold the vessel's position taking the stress out of docking, it is no longer necessary to rush to tie up. The stereo vision system gives a clear map of objects around the vessel allowing to see what is in the blind spots when at the helm.

Now available to boat builders for straight-shaft inboard and bow-thruster propulsion-system applications, Raymarine DockSense Control uses a litany of refined technologies. These include global positioning system (GPS) monitoring, attitude heading reference system (AHRS) position-sensing technology to compensate for the effects of wind and currents, multiple Teledyne FLIR machine vision cameras, and a central processing module. DockSense™ Control interfaces with Raymarine [Axiom®](#) multifunction displays and the Emerson AVENTICS™ Marex 3D joystick system to help captains make a smooth arrival.

“It's an exciting step forward for boaters,” says Gregoire Outters, General Manager for the Raymarine brand at Teledyne FLIR. “After years of development, testing and refinement – meeting and overcoming challenges head-on – we couldn't be more excited to announce the availability of Raymarine DockSense Control to the recreational marine industry. DockSense Control delivers a beautifully engineered solution to one of the most common problems and sources of frustration in boating and is squarely

representative of Raymarine's mission of improving the overall boating experience."

"Emerson has long been committed to making ship maneuvering ever safer and easier," explains Steffen Kauth, Business Development Manager at Emerson Automation Solutions. "With the Aventics™ Marex 3D joystick system, we have taken a major step forward on this path, providing intuitive, one-handed operation of main and auxiliary drives at great accuracy in maneuvering. Dynamic positioning was another milestone. With Raymarine Docksense™ a new level of comfort in operation is reached, combining easy maneuvering and assisted docking to a unique user experience."

DockSense Control means that boat builders now have two distinct choices of Raymarine assisted-docking systems to meet the needs of their customers. Released last year, [DockSense Alert](#) is compatible with a wide variety of vessels and uses many of the same Raymarine assisted-docking technologies. It includes audible and visual warnings when objects encroach upon the user-defined Virtual Bumper zone around the vessel but does not integrate with the boat's propulsion system.

Meanwhile, [DockSense Control](#) offers full integration with inboard/bow-thruster propulsion systems and will actually override a captain's throttle and steering inputs to keep the vessel from contacting obstacles.

Boat builders interested in learning more about Raymarine DockSense Control are invited to speak with their Raymarine Sales Representative or [contact us through our website](#).

To learn more, visit <https://www.raymarine.com/assisted-docking/docksense-control.html#>.

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About Raymarine

Raymarine, a business of Teledyne FLIR, makes high-performance marine electronics for the recreational boating and light commercial marine markets. With a legacy of marine navigation technology spanning over 80 years, Raymarine products are renowned today for their ease-of-use, rugged design, and reliability. We are continually innovating to deliver best-in-class sensors and intelligent navigation systems - making boaters' time on the water safer and more fun. Our range of marine electronics is available through a global network of dealers and distributors. For more information, visit www.raymarine.com.

About EMERSON

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial and residential markets. Our Emerson Automation Solutions business helps process, hybrid and discrete manufacturers maximize production and protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial & Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency and create sustainable infrastructure. For more information, visit Emerson.com.

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